

[54] **OFF LINE PHOTOCOPYING SYSTEM  
USING PORTABLE ELECTRONIC CAMERA,  
VISUAL PREVIEWING AND IMAGE  
PROCESSING**

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[\*] Notice: The portion of the term of this patent  
subsequent to May 13, 2003 has been  
disclaimed.

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**Related U.S. Application Data**

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[51] Int. Cl.<sup>4</sup> ..... **H04M 1/024**

[52] U.S. Cl. .... **358/256; 358/280;  
358/294**

[58] Field of Search ..... **358/909, 97, 256, 294,  
358/280; 308/3 R**

**References Cited**

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[57] **ABSTRACT**

A portable electronic still camera and image previewing and processing system for electronically imaging and recording images at the situs of objects and documents to be photographed and copied. The system includes a portable optical image previewer, and a portable image processor having adjustable controls for editing, combining, and otherwise processing the recorded electronic images being optically displayed on the screen of the previewer. The camera, previewer, and processor are provided as separate modular components that can be detachably interconnected together. A dual electronic camera is also provided that concurrently exposes a conventional photographic film, that supplies exposed film frames corresponding to each of the electronic images. The recorded electronic images are visually previewable, prior to developing the film, to both select those frames to be printed and to adjustably control the parameters of developing and printing the photo film. Automatic control of film processing can be controlled by instructions that are recorded during previewing of the corresponding electronic images. A method for electro-optically reading out the latent images in an exposed but undeveloped photo film is also provided.

**20 Claims, 3 Drawing Sheets**

